FORM PTO-1390 U.S. Department of Commerce Patent and Trademark Office ATTORNEY'S DOCKET NUMBER (REV 1-2003) CR00566P TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (if known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) 10/533557 CONCERNING A FILING UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/EP/2003/050774 **OCTOBER 31, 2003** OCTOBER 31, 2003 TITLE OF INVENTION: COMMUNICATION UNIT AND METHOD OF CHANNEL ESTIMATION IN AN OFDM COMMUNICATION SYSTEM APPLICANT(S) FOR DO/EO/US MAZET, ET AL Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 2. 3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). 4. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. b. **X** is not required, as the application was filed in the United States Receiving Office (RO/US). [x] An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). is attached hereto. П \mathbf{x} has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)). are attached hereto (required only if not communicated by the International Bureau). \Box have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern other document(s) or information included: 11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. X A preliminary amendment. 14. X An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. Other items or information:

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US. Applicat	if kno	wn, see 37 CFR	1.5)	International Application No.			Attorney Docket Number			
10	33	3557		PCT/EP/2003/050774			CR00566P			
The follow	ave be	en submitted:	-				CALCULATIONS	PTO USE ONLY		
21. 🛛 Basic	fee	•••••	• • • • • • • • •	•••••	• • • •	\$300	\$300.00			
22. Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)								\$100.00		
All other situations\$200										
23. Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority\$100										
International Search Report prepared and provided to the Office\$400 All other situations\$500								\$100.00		
TOTAL OF 21, 22 AND 23=								\$500.00	 	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.										
Total Sheets Extra Sheets Number of each additional 50 or										
			fraction thereof (round up to a whole number)			RATE				
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Total Claims			10- 20 =	0		x \$50.00	\$			
Independent Claims 2- 3 =					0		x \$200.00	\$		
MULTIPLE DEPENDENT CLAIM(s) (if applicable) + \$360.00								\$		
TOTAL OF ABOVE CALCULATIONS =								\$0		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.								\$		
SUBTOTAL =								\$		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).								\$		
TOTAL NATIONAL FEE =								\$		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +								\$		
TOTAL FEES ENCLOSED =								\$		
								Amount to be refunded:	s	
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b. X Please charge my Deposit Account No. 502117 in the amount of \$500.00 to cover the above fees.										
A duplicate copy of this sheet is enclosed.										
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any										
overpayment to Deposit Account No. 502117. A duplicate copy of this sheet is enclosed. d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card										
information should not be included on this form. Provide credit card information any authorization on PTO – 2038.										
Note: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the international application to pending status.										
Send all correspondence to:								۸ــ		
Indira Saladi										
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Law Department Fax No.: 847.5										
Schaumburg, IL 60196										

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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS:

MOTOROLA, INC INT'L APPLICATION NO:

PCT/EP/2003/050774

CASE NO.:

CR00566P

INT'L FILE DATE:

OCTOBER 31, 2003

ENTITLED:

COMMUNICATION UNIT AND METHOD OF CHANNEL

ESTIMATION IN AN OFDM COMMUNICATION SYSTEM

Motorola, Inc. Corporate Offices 1303 E. Algonquin Road Schaumburg, IL 60196 April 29, 2005

CERTIFICATE OF EXPRESS MAILING / FILING UNDER 35 U.S.C. 371

BOX PCT COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, VA 22213-1450

Sir:

I certify that the above-referenced FILING UNDER 35 U.S.C. 371 was deposited, postage prepaid, as Express Mail having the mailing label number written below with the United States Postal Service addressed to:

> **BOX PCT** COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, VA 22213-1450

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